

Application No. Not Yet Assigned
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Customer No. 28289

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Please cancel claims 1-30.

31. (New) A paramagnetic nano powder comprising gold or silver powder having paramagnetism at an absolute temperature of 20K or higher.

32. (New) The paramagnetic nano powder of claim 31, wherein the size of particles of said gold or silver powder is 40 μm or less.

33. (New) The paramagnetic nano powder of claim 31, wherein said gold or silver powder has paramagnetism at an absolute temperature of 100K or higher.

34. (New) The paramagnetic nano powder of claim 33, wherein said gold or silver powder has paramagnetism at room temperature.

35. (New) The paramagnetic nano powder of claim 32, wherein said silver powder has paramagnetism in an external magnetic field, H, of 2,000 Oe or greater.

36. (New) The paramagnetic nano powder of claim 35, wherein said silver powder has paramagnetism in an external magnetic field, H, of 4,000 Oe or greater.

37. (New) The paramagnetic nano powder of claim 32, wherein said silver powder has a saturated magnetic moment in an external magnetic field, H, in the range of 2,000 to 8,000 Oe.

38. (New) The paramagnetic nano powder of claim 32, wherein said gold or silver powder has super-paramagnetism at an absolute temperature of 100K or lower.

39. (New) The paramagnetic nano powder of claim 38, wherein the size of particles of said silver powder is 3 μm or less.

40. (New) The paramagnetic nano powder of claim 38, wherein the size of particles of said gold powder is 20 nm or less.

41. (New) The paramagnetic nano powder of claim 32, wherein said silver powder has a positive mass magnetization in which the slope of the mass magnetization curve, dM/dH , is positive at an absolute temperature of 100K or lower.

42. (New) The paramagnetic nano powder of claim 41, wherein said silver powder has a positive mass magnetization as the inclination of the mass magnetization curve, dM/dH , is 3×10^{-7} emu/g·Oe or greater at an absolute temperature of 20K.

43. (New) The paramagnetic nano powder of claim 32, wherein said silver powder has a positive mass magnetization in an external magnetic field, H, of 2,000 Oe or greater.

44. (New) The paramagnetic nano powder of claim 43, wherein said silver powder has a positive mass magnetization in an external magnetic field, H, of 4,000 Oe or greater.

45. (New) The paramagnetic nano powder of claim 32, wherein said gold powder has a positive mass magnetization as the inclination of the mass magnetization curve, dM/dH , is a positive value in an external magnetic field, H, of 1,000 Oe or greater.

46. (New) The paramagnetic nano powder of claim 45, wherein said gold powder has a positive mass magnetization as the inclination of the mass magnetization curve,

dM/dH , is 4×10^{-6} or greater in an external magnetic field, H, of 10,000 Oe at an absolute temperature of 20K.

47. (New) The paramagnetic nano powder of claim 32, wherein said gold or silver powder has a coercive force of 5 Gauss or less.

48. (New) The paramagnetic nano powder of claim 47, wherein said gold or silver powder has a coercive force of 2 Gauss or less.

49. (New) A method of manufacturing paramagnetic nano powder, comprising the steps of:

generating of a plasma having an absolute temperature in the range of 4,000 to 200,000K by using an RF power amplifier of 13.56 MHz and 5 to 50 kW and an inductive coupled plasma torch in a vacuum reaction tube;

producing a gold or silver plasma gas by reacting said generated plasma and diamagnetic gold or silver powder; and

producing paramagnetic gold or silver powder by rapidly cooling said gold or silver plasma gas below a room temperature under a vacuum in a nano powder collection equipment installed at the lower end of a plasma reaction furnace.

50. (New) The method of claim 49, wherein a single-type RF applied power is 7 kW or greater, or a double-type RF applied power is 5 kW or greater.

51. (New) The method of claim 49, further comprising the step of controlling the size of paramagnetic gold or silver powder by adjusting the conditions selected from the length of the reaction flame in which plasma is formed, and the time or temperature of rapid cooling of said gold or silver plasma gas.

52. (New) An epilation composition containing said silver powder having paramagnetism of claim 32, germanium dioxide, and purified water.

53. (New) The epilation composition of claim 52, wherein the content of said silver powder is in the range of 0.01 to 10 ppm.

54. (New) The epilation composition of claim 52, wherein the germanium dioxide is obtained by burning natural lignite in the range of 1,600 to 2,000°C in a combustion furnace.

55. (New) A toothpaste composition containing said silver powder having paramagnetism of claim 32.

56. (New) The toothpaste composition of claim 55, wherein the content of said silver powder is in the range of 0.005 to 0.1 weight %.

57. (New) A cosmetic composition containing said gold or silver powder having paramagnetism of claim 32, or their mixture.

58. (New) The cosmetic composition of claim 57, wherein the content of said gold powder is in the range of 3 to 20 ppm.

59. (New) The cosmetic composition of claim 57, wherein the content of said silver powder is in the range of 5 to 50 ppm.